

WHAT IS CLAIMED IS:

1. A method of exchanging data between mobile phones through an inter-working function in an IS-95A/B network, comprising:
 - 5 a first step in which a receiving mobile phone enters data reception mode as a receiving user selects data call receiving mode;
 - a second step in which a transmitting mobile phones initiates a data call to the receiving mobile phone;
 - 10 a third step in which as the receiving mobile phone answers the call, data exchange between the mobile phones proceeds; and
 - a fourth step in which data transmission from the transmitting mobile phone to the receiving mobile phone is completed.
- 15 2. The data exchange method according to claim 1, wherein said mobile phones transmit signals through a service option 4 or 12.
- 20 3. The data exchange method according to claim 1, wherein, in said data exchange mode of the third step, each of the mobile phones considers all data except control data transmitted from an inter-working unit as data transmitted from the other mobile phone.
- 25 4. The data exchange method according to claim 1, wherein said completion of data transmission of the fourth step is terminated when an end key of any of the mobile phones is pressed by a user.
5. A method of exchanging data between mobile phones through an inter-working function in an IS-95C network, comprising:
 - 30 a first step in which a transmitting mobile phone initiates a data call to a receiving mobile phone;
 - a second step in which the receiving mobile phone answers the data call;
 - a third step in which the transmitting and receiving mobile phones are operated in data exchange mode for transmitting data from the transmitting mobile phone to the

receiving mobile phone; and

a fourth step in which data transmission from the transmitting mobile phone to the receiving mobile phone is completed.

5 6. The data exchange method according to claim 5, wherein said mobile phones transmit signals through a service option 4 or 12.

10 7. The data exchange method according to claim 5, wherein, in said data exchange mode of the third step, each of the mobile phones considers all data except control data transmitted from an inter-working unit as data transmitted from the other mobile phone.

15 8. The data exchange method according to claim 5, wherein completion of data transmission of the fourth step is terminated when an end key of any of the mobile phones is pressed by a user.

9. A method of exchanging data between mobile phones in an IS-95A/B or IS-95C network through a proxy inter-working function service, comprising:

20 a first step in which a transmitting mobile phone initiates a data call to a receiving mobile phone;

 a second step in which the receiving mobile phone answers the data call;

 a third step in which the transmitting and receiving mobile phones are operated in data exchange mode for transmitting data from the transmitting mobile phone to the receiving mobile phone; and

25 a fourth step in which data transmission from the transmitting mobile phone to the receiving mobile phone is completed.

10. The data exchange method according to claim 9, wherein said mobile phones transmit signals through a service option 0x8003.

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11. The data exchange method according to claim 9, wherein, in said data exchange mode of the third step, each of the mobile phones considers all data except

control data transmitted from an proxy inter-working unit as data transmitted from the other mobile phone.

12. The data exchange method according to claim 9, wherein said completion
5 of data transmission of the fourth step is terminated when an end key of any of the mobile phones is pressed by a user.